

Gregory, Bernarr

From: PLUS
Sent: Wednesday, June 01, 2005 3:40 PM
To: Gregory, Bernarr
Subject: PLUS Results for 10761014

Here are the PLUS search results for 10761014.

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10761014_QUAL
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10761014_LIST.
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10761014_WES
T.txt



10761014_EAST
.txt



10761014.east



10761014_CLS.t
xt



10761014_CLST10761014_WDS.
ITLES.txt

10761014_QUAL.txt

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PLUS Search Results for S/N 10761014, Searched June 01, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10761014_CLS.txt

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10761014 on June 01, 2005

original classifications

15 331/16
14 331/1A
14 455/76
11 708/276
10 331/2
7 327/105
7 331/18
7 331/4
7 375/308
6 708/271
5 327/106
5 375/376
4 327/107
4 331/1R
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Cross-Reference classifications

61 331/25
25 327/105
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21 331/17
20 375/376

10761014_CLS.txt

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Combined Classifications

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32 327/105
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2 73/866.5
2 324/307
2 324/309
2 324/314
2 324/326
2 324/332
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2 324/76.12
2 324/76.33
2 324/76.35
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2 327/117
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Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10761014 on June 01, 2005

65 331/25 (4 OR, 61 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/18 .With reference oscillator or source
331/25 ..Signal or phase comparator

34 331/16 (15 OR, 19 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/16 .Tuning compensation

32 327/105 (7 OR, 25 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/105 .Synthesizer

32 455/76 (14 OR, 18 XR)
Class 455 : TELECOMMUNICATIONS
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,
TRANSCEIVER)
455/75 .with frequency stabilization (e.g., automatic
frequency control)
455/76 ..Synthesizer

27 455/260 (3 OR, 24 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/230 .Local control of receiver operation
455/255 ..Local oscillator frequency control
455/257 ...Automatic
455/258Utilizing particular local oscillator
control
455/259Reference oscillator or source
455/260Phase lock loop or frequency synthesizer

26 331/18 (7 OR, 19 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/18 .With reference oscillator or source

25 331/1A (14 OR, 11 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/1A .AFC with logic elements

25 375/376 (5 OR, 20 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/354 SYNCHRONIZERS
375/371 .Phase displacement, slip or jitter correction
375/373 ..Phase locking
375/376 ...Phase locked loop

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25 708/276 (11 OR, 14 XR)
Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
AND CALCULATING
708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
708/200 .Particular function performed
708/270 ..Function generation
708/276 ...Trigonometric

24 331/17 (3 OR, 21 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/17 .Particular error voltage control (e.g.,
integrating network)

23 327/106 (5 OR, 18 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/105 .Synthesizer
327/106 ..Having stored waveform data (e.g., in ROM,
etc.)

20 327/107 (4 OR, 16 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/105 .Synthesizer
327/107 ..Having digital device (e.g., logic gate,
flip-flop, etc.)

16 331/2 (10 OR, 6 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/2 .Plural oscillators controlled

16. 375/308 (7 OR, 9 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
375/302 .Angle modulation
375/308 ..Phase shift keying

14 332/127 (1 OR, 13 XR)
Class 332 : MODULATORS
332/117 FREQUENCY MODULATOR
332/123 .Including stabilization or alternatively
distortion, noise or other interference prevention,
reduction, or compensation
332/126 ..Automatic frequency stabilization or control
332/127 ...Phase or frequency locked loop

14 708/271 (6 OR, 8 XR)
Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
AND CALCULATING
708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
708/200 .Particular function performed
708/270 ..Function generation
708/271 ...Direct digital frequency synthesizer

13 331/4 (7 OR, 6 XR)

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Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/4 .Search sweep of oscillator

12 332/103 (4 OR, 8 XR)
Class 332 : MODULATORS
332/103 PHASE SHIFT KEYING MODULATOR OR QUADRATURE
AMPLITUDE MODULATOR

11 327/156 (2 OR, 9 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/141 .Synchronizing
327/155 ..With feedback
327/156 ...Phase lock loop

11 455/183.1 (1 OR, 10 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/179.1 ..Channel or station selection
455/183.1 ...With frequency synthesizer

10 332/144 (0 OR, 10 XR)
Class 332 : MODULATORS
332/144 PHASE MODULATOR

9 331/14 (2 OR, 7 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/14 .With intermittent comparison controls

9 331/23 (1 OR, 8 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/18 ..With reference oscillator or source
331/23 ..Sensing modulation (e.g., frequency
modulation controlled oscillator)

9 332/128 (2 OR, 7 XR)
Class 332 : MODULATORS
332/117 FREQUENCY MODULATOR
332/123 .Including stabilization or alternatively
distortion, noise or other interference prevention,
reduction, or compensation
332/126 ...Automatic frequency stabilization or control
332/127 ...Phase or frequency locked loop
332/128 ...Modulating signal applied to plural
elements of the loop

7 331/19 (0 OR, 7 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/18 .With reference oscillator or source
331/19 ..Spectrum reference source

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7 375/344 (3 OR, 4 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/316 RECEIVERS
375/344 .Automatic frequency control

7 455/113 (0 OR, 7 XR)
Class 455 : TELECOMMUNICATIONS
455/91 TRANSMITTER
455/110 .Angle modulation
455/113 ..with frequency control

6 324/76.27 (2 OR, 4 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
SE
324/76.12 .Analysis of complex waves
324/76.19 ..Frequency spectrum analyzer
324/76.26 ...Scanning-panoramic receiver
324/76.27with particular sweep circuit

6 331/10 (2 OR, 4 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/10 .Plural A.F.S. for a single oscillator

6 331/178 (0 OR, 6 XR)
Class 331 : OSCILLATORS
331/177R WITH FREQUENCY ADJUSTING MEANS
331/178 .Cyclic frequency sweeping means (e.g.,
vibrato)

6 331/1R (4 OR, 2 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS

6 331/34 (0 OR, 6 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/34 .Particular frequency control means

6 375/303 (0 OR, 6 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
375/302 .Angle modulation
375/303 ..Frequency shift keying

6 375/327 (1 OR, 5 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/316 RECEIVERS
375/322 .Angle modulation
375/324 ..Particular demodulator
375/327 ...Phase locked loop

6 375/373 (3 OR, 3 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/354 SYNCHRONIZERS
375/371 .Phase displacement, slip or jitter correction
375/373 ..Phase locking

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6 455/119 (1 OR, 5 XR)
Class 455 : TELECOMMUNICATIONS
455/91 TRANSMITTER
455/119 .Carrier frequency stabilization

6 708/270 (1 OR, 5 XR)
Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
AND CALCULATING
708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
708/200 .Particular function performed
708/270 ..Function generation

5 324/76.23 (0 OR, 5 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
SE
324/76.12 .Analysis of complex waves
324/76.19 ..Frequency spectrum analyzer
324/76.23 ...With mixer

5 327/159 (0 OR, 5 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/141 .Synchronizing
327/155 ..With feedback
327/156 ...Phase lock loop
327/159With digital element

5 329/304 (1 OR, 4 XR)
Class 329 : DEMODULATORS
329/304 PHASE SHIFT KEYING OR QUADRATURE AMPLITUDE
DEMODULATOR

5 331/179 (0 OR, 5 XR)
Class 331 : OSCILLATORS
331/177R WITH FREQUENCY ADJUSTING MEANS
331/179 .Step-frequency change (e.g., band selection,
frequency-shift keying)

5 331/40 (1 OR, 4 XR)
Class 331 : OSCILLATORS
331/37 BEAT FREQUENCY
331/40 .Frequency or amplitude adjustment or control

5 331/DIG 2 (0 OR, 5 XR)
Class 331 : OSCILLATORS
331/DIG 2 Phase locked loop having lock indicating or
detecting means

5 375/326 (3 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/316 RECEIVERS
375/322 .Angle modulation
375/324 ..Particular demodulator
375/326 ...Carrier recovery circuit or carrier tracking

5 375/329 (1 OR, 4 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/316 RECEIVERS

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375/322 .Angle modulation
375/329 ..Phase shift keying

5 375/371 (0 OR, 5 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/354 SYNCHRONIZERS
375/371 .Phase displacement, slip or jitter correction

5 455/110 (1 OR, 4 XR)
Class 455 : TELECOMMUNICATIONS
455/91 TRANSMITTER
455/110 .Angle modulation

5 455/118 (0 OR, 5 XR)
Class 455 : TELECOMMUNICATIONS
455/91 TRANSMITTER
455/118 .Frequency conversion

5 455/165.1 (0 OR, 5 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/161.1 ..Frequency scanning
455/165.1 ...with frequency synthesizer

5 455/192.2 (1 OR, 4 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/192.1 ..with frequency control
455/192.2 ...Automatic (AFC)

5 455/315 (1 OR, 4 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/313 .Frequency modifying or conversion
455/314 ..Plural separate successive conversions
455/315 ...with plural separate local oscillators

4 327/157 (0 OR, 4 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/141 .Synchronizing
327/155 ..With feedback
327/156 ...Phase lock loop
327/157With charge pump

4 331/27 (0 OR, 4 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/18 .With reference oscillator or source
331/25 ..Signal or phase comparator
331/27 ...Plural active element (e.g., triodes)

4 331/36C (0 OR, 4 XR)

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Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/34 .Particular frequency control means
331/36R ..Reactance device (e.g., variable capacitors,
saturable inductors, reactance tubes, etc.)
331/36C ...Capacitor controlled AFC

4 332/101 (2 OR, 2 XR)
Class 332 : MODULATORS
332/100 FREQUENCY SHIFT KEYING MODULATOR OR MINIMUM
SHIFT KEYING MODULATOR
332/101 .Including logic element (e.g., logic gate or
flip-flop)

4 332/117 (3 OR, 1 XR)
Class 332 : MODULATORS
332/117 FREQUENCY MODULATOR

4 332/119 (1 OR, 3 XR)
Class 332 : MODULATORS
332/117 FREQUENCY MODULATOR
332/119 .Plural modulation

4 348/731 (3 OR, 1 XR)
Class 348 : TELEVISION
348/725 RECEIVER CIRCUITRY
348/731 .Tuning

4 348/735 (0 OR, 4 XR)
Class 348 : TELEVISION
348/725 RECEIVER CIRCUITRY
348/735 .Automatic frequency control

4 375/345 (0 OR, 4 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/316 RECEIVERS
375/345 .Automatic gain control

4 375/375 (1 OR, 3 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/354 SYNCHRONIZERS
375/371 .Phase displacement, slip or jitter correction
375/373 ..Phase locking
375/375 ...with frequency detector and phase detector

4 377/48 (1 OR, 3 XR)
Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR
SHIFT REGISTERS: CIRCUITS AND SYSTEMS
377/27 SYSTEMS
377/47 .Pulse multiplication or division
377/48 ..Multiplication or division by a fraction

4 455/112 (0 OR, 4 XR)
Class 455 : TELECOMMUNICATIONS
455/91 TRANSMITTER
455/110 .Angle modulation
455/112 ..With frequency multiplication or division

4 455/12.1 (1 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS

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455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,
RETRANSMISSION OF SAME INFORMATION)
455/11.1 .Portable or mobile repeater
455/12.1 ..Space satellite

4 455/182.2 (2 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/179.1 ..Channel or station selection
455/182.1 ...With frequency control
455/182.2Automatic (AFC)

4 455/182.3 (2 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/179.1 ..Channel or station selection
455/182.3 ...Fine tuning

4 455/209 (1 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/205 .Frequency or phase modulation
455/208 ..With synchronized or controlled local
oscillator
455/209 ...Plural local oscillators or mixers

4 455/87 (0 OR, 4 XR)
Class 455 : TELECOMMUNICATIONS
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,
TRANSCEIVER)
455/84 .With a common signal processing stage
455/86 ..Transmitter oscillator used as local
oscillator
455/87 ...Tunable or variable

3 324/76.19 (1 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
SE
324/76.12 .Analysis of complex waves
324/76.19 ..Frequency spectrum analyzer

3 327/113 (0 OR, 3 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/113 .Frequency or repetition rate conversion or
control

3 327/115 (0 OR, 3 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/113 .Frequency or repetition rate conversion or
control
327/114 ..Of output rectangular waveform

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327/115 ...Frequency division

3 327/129 (0 OR, 3 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/129 .Generating sinusoidal output

3 327/147 (0 OR, 3 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/141 .Synchronizing
327/144 ..Using multiple clocks
327/146 ...With feedback
327/147Phase lock loop

3 327/551 (0 OR, 3 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/524 SPECIFIC IDENTIFIABLE DEVICE, CIRCUIT, OR
SYSTEM
327/551 .Unwanted signal suppression

3 327/7 (1 OR, 2 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G.,
COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT CONTROL
327/2 .By phase
327/3 ..Comparison between plural inputs (e.g., phase
angle indication, lead-lag discriminator, etc.)
327/7 ...With reference signal

3 331/11 (2 OR, 1 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/10 .Plural A.F.S. for a single oscillator
331/11 ..Plural comparators or discriminators

3 331/176 (1 OR, 2 XR)
Class 331 : OSCILLATORS
331/175 FREQUENCY STABILIZATION
331/176 .Temperature or current responsive means in
circuit

3 331/177R (0 OR, 3 XR)
Class 331 : OSCILLATORS
331/177R WITH FREQUENCY ADJUSTING MEANS

3 331/177V (0 OR, 3 XR)
Class 331 : OSCILLATORS
331/177R WITH FREQUENCY ADJUSTING MEANS
331/177V .With voltage sensitive capacitor

3 331/30 (0 OR, 3 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/30 .With stable heterodyne oscillator or source

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3 331/31 (0 OR, 3 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/30 .with stable heterodyne oscillator or source
331/31 ..Plural significant heterodyne stages

3 331/43 (0 OR, 3 XR)
Class 331 : OSCILLATORS
331/37 BEAT FREQUENCY
331/42 .with particular signal combining means (e.g.,
cavity mixer)
331/43 ..With filter in mixer output circuit

3 331/66 (0 OR, 3 XR)
Class 331 : OSCILLATORS
331/65 WITH DEVICE RESPONSIVE TO EXTERNAL PHYSICAL
CONDITION
331/66 .Temperature or light responsive

3 331/96 (2 OR, 1 XR)
Class 331 : OSCILLATORS
331/96 WITH DISTRIBUTED PARAMETER RESONATOR

3 332/100 (3 OR, 0 XR)
Class 332 : MODULATORS
332/100 FREQUENCY SHIFT KEYING MODULATOR OR MINIMUM
SHIFT KEYING MODULATOR

3 332/123 (1 OR, 2 XR)
Class 332 : MODULATORS
332/117 FREQUENCY MODULATOR
332/123 .Including stabilization or alternatively
distortion, noise or other interference prevention,
reduction, or compensation

3 332/124 (1 OR, 2 XR)
Class 332 : MODULATORS
332/117 FREQUENCY MODULATOR
332/123 .Including stabilization or alternatively
distortion, noise or other interference prevention,
reduction, or compensation
332/124 ..Nonlinearity reduction or compensation

3 341/147 (1 OR, 2 XR)
Class 341 : CODED DATA GENERATION OR CONVERSION
341/126 ANALOG TO OR FROM DIGITAL CONVERSION
341/144 .Digital to analog conversion
341/147 ..Function generator

3 342/118 (0 OR, 3 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/118 DETERMINING DISTANCE

3 342/175 (0 OR, 3 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT

3 342/195 (0 OR, 3 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

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342/175 WITH PARTICULAR CIRCUIT
342/195 .Digital processing

3 342/202 (2 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/202 .For pulse modulation

3 342/22 (3 OR, 0 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/22 TRANSMISSION THROUGH MEDIA OTHER THAN AIR OR
FREE SPACE

3 370/516 (1 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/473 ..Transmission of a single message having
multiple packets
370/498 .Combining or distributing information via time
channels
370/503 ..Synchronizing
370/516 ...Adjusting for phase or jitter

3 375/146 (1 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/130 SPREAD SPECTRUM
375/140 .Direct sequence
375/146 ..Transmitter

3 375/216 (0 OR, 3 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/216 APPARATUS CONVERTIBLE TO ANALOG

3 375/222 (2 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/219 TRANSCEIVERS
375/222 .Modems (data sets)

3 375/271 (0 OR, 3 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT
375/271 .Angle modulation

3 375/272 (0 OR, 3 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT
375/271 .Angle modulation
375/272 ..Frequency shift keying

3 375/279 (0 OR, 3 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT
375/271 .Angle modulation
375/279 ..Phase shift keying

3 375/296 (2 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
375/296 .Antinoise or distortion (includes

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predistortion)

3 375/377 (2 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/377 MISCELLANEOUS

3 455/183.2 (1 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/179.1 ..Channel or station selection
455/183.1 ...With frequency synthesizer
455/183.2Processor controlled

3 455/192.3 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/192.1 ..With frequency control
455/192.3 ...Fine tuning

3 455/316 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/313 .Frequency modifying or conversion
455/314 ..Plural separate successive conversions
455/315 ...With plural separate local oscillators
455/316With frequency stabilization for at least
one local oscillator

3 455/324 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/313 .Frequency modifying or conversion
455/323 ..Particular frequency conversion structure or
circuitry
455/324 ...Homodyne (i.e., zero beat or synchrodyne
reception)

3 455/67.16 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
455/67.11 .Having measuring, testing, or monitoring of
system or part
455/67.16 ..Phase measuring (e.g., group delay,
propagation effect, etc.)

3 455/86 (1 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,
TRANSCEIVER)
455/84 .With a common signal processing stage
455/86 ..Transmitter oscillator used as local
oscillator

3 708/313 (1 OR, 2 XR)

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Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
AND CALCULATING
708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
708/200 .Particular function performed
708/300 ..Filtering
708/313 ...Decimation/interpolation

2 73/19.03 (2 OR, 0 XR)
Class 073 : MEASURING AND TESTING
73/19.01 GAS CONTENT OF A LIQUID OR A SOLID
73/19.03 .By vibration

2 73/632 (0 OR, 2 XR)
Class 073 : MEASURING AND TESTING
73/570 VIBRATION
73/584 .By mechanical waves
73/596 ..Beamed
73/632 ...Sonic wave transmitter or receiver
transducer

2 73/866.5 (0 OR, 2 XR)
Class 073 : MEASURING AND TESTING
73/866.5 PROBE OR PROBE MOUNTING

2 324/307 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/300 PARTICLE PRECESSION RESONANCE
324/307 .Using a nuclear resonance spectrometer system

2 324/309 (2 OR, 0 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/300 PARTICLE PRECESSION RESONANCE
324/307 .Using a nuclear resonance spectrometer system
324/309 ..To obtain localized resonance within a sample

2 324/314 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/300 PARTICLE PRECESSION RESONANCE
324/307 .Using a nuclear resonance spectrometer system
324/314 ..With conditioning of transmitter signal

2 324/326 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/326 .For small object detection or location

2 324/332 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/332 .With radiant energy or nonconductive-type
transmitter

2 324/344 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/344 .With radiant energy or nonconductive-type
receiver

2 324/613 (2 OR, 0 XR)

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Class 324 : ELECTRICITY: MEASURING AND TESTING
324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
RELATIONSHIPS
324/612 .Parameter related to the reproduction or
fidelity of a signal affected by a circuit under test
324/613 ..Noise

2 324/76.12 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
SE
324/76.12 .Analysis of complex waves

2 324/76.33 (2 OR, 0 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
SE
324/76.12 .Analysis of complex waves
324/76.19 ..Frequency spectrum analyzer
324/77.11 ...Nonscanning
324/76.33Correlation

2 324/76.35 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
SE
324/76.12 .Analysis of complex waves
324/76.19 ..Frequency spectrum analyzer
324/77.11 ...Nonscanning
324/76.35with delay line

2 324/76.43 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
SE
324/76.39 .Frequency of cyclic current or voltage (e.g.,
cyclic counting etc.)
324/76.41 ..Frequency comparison, (e.g., heterodyne,
etc.)
324/76.43 ...with plural mixers

2 324/76.53 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
SE
324/76.39 .Frequency of cyclic current or voltage (e.g.,
cyclic counting etc.)
324/76.52 ..By phase comparison
324/76.53 ...With phase lock

2 327/117 (0 OR, 2 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/113 .Frequency or repetition rate conversion or
control
327/117 ..Frequency division

2 327/119 (0 OR, 2 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING

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327/113 .Frequency or repetition rate conversion or control
 327/119 ..Frequency multiplication (e.g., harmonic generation, etc.)

2 327/12 (1 OR, 1 XR)

Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS

327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G., COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT CONTROL

327/2 .By phase
 327/3 ..Comparison between plural inputs (e.g., phase angle indication, lead-lag discriminator, etc.)
 327/12 ...with logic or bistable circuit

2 327/158 (1 OR, 1 XR)

Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS

327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
 327/141 .Synchronizing
 327/155 ..With feedback
 327/156 ...Phase lock loop
 327/158With variable delay means

2 327/231 (0 OR, 2 XR)

Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS

327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
 327/231 .Phase shift by less than period of input

2 327/355 (0 OR, 2 XR)

Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS

327/334 SPECIFIC INPUT TO OUTPUT FUNCTION
 327/355 .Combining of plural signals

2 327/9 (0 OR, 2 XR)

Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS

327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G., COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT CONTROL

CONTROL

327/2 .By phase
 327/3 ..Comparison between plural inputs (e.g., phase angle indication, lead-lag discriminator, etc.)
 327/7 ...With reference signal
 327/9With sampling

2 329/306 (0 OR, 2 XR)

Class 329 : DEMODULATORS

329/304 PHASE SHIFT KEYING OR QUADRATURE AMPLITUDE DEMODULATOR
 329/306 .Input signal combined with local oscillator or carrier frequency signal

2 329/323 (0 OR, 2 XR)

Class 329 : DEMODULATORS

329/315 FREQUENCY MODULATION DEMODULATOR
 329/323 .Input signal combined with local oscillator or carrier frequency signal

2 331/107SL (1 OR, 1 XR)

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Class 331 : OSCILLATORS
331/107R SOLID STATE ACTIVE ELEMENT OSCILLATOR
331/107DP .Significant distributed parameter resonator
(e.g., cavity)
331/107SL ..Stripline type

2 331/117D (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/107R SOLID STATE ACTIVE ELEMENT OSCILLATOR
331/108R .Transistors
331/117R ..L-C type
331/117D ...Distributed parameter resonator transistor
oscillators

2 331/12 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/10 .Plural A.F.S. for a single oscillator
331/11 ..Plural comparators or discriminators
331/12 ...With phase-shifted inputs

2 331/158 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/154 ELECTROMECHANICAL RESONATOR
331/158 .Crystal

2 331/175 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/175 FREQUENCY STABILIZATION

2 331/22 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/18 .With reference oscillator or source
331/22 ..Plural significant heterodyne stages

2 331/3 (2 OR, 0 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
OR FREQUENCY SENSING MEANS
331/3 .Molecular resonance stabilization

2 331/37 (1 OR, 1 XR)
Class 331 : OSCILLATORS
331/37 BEAT FREQUENCY

2 331/38 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/37 BEAT FREQUENCY
331/38 .Plural beating

2 331/41 (1 OR, 1 XR)
Class 331 : OSCILLATORS
331/37 BEAT FREQUENCY
331/41 .Frequency stabilization

2 331/47 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/46 PLURAL OSCILLATORS
331/47 .Oscillator used to vary amplitude or frequency
of another oscillator

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2 331/56 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/46 PLURAL OSCILLATORS
331/56 .Parallel connected

2 331/74 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/74 COMBINED WITH PARTICULAR OUTPUT COUPLING
NETWORK

2 331/77 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/74 COMBINED WITH PARTICULAR OUTPUT COUPLING
NETWORK
331/77 .Wave filter

2 331/78 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/78 ELECTRICAL NOISE OR RANDOM WAVE GENERATOR

2 331/94.1 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/94.1 MOLECULAR OR PARTICLE RESONANT TYPE (E.G.,
MASER)

2 332/104 (0 OR, 2 XR)
Class 332 : MODULATORS
332/103 PHASE SHIFT KEYING MODULATOR OR QUADRATURE
AMPLITUDE MODULATOR
332/104 .Including logic element (e.g., logic gate or
flip-flop)

2 332/112 (2 OR, 0 XR)
Class 332 : MODULATORS
332/106 PULSE OR INTERRUPTED CONTINUOUS WAVE MODULATOR

332/112 .Pulse position, frequency, phase, or spacing
modulator

2 332/125 (1 OR, 1 XR)
Class 332 : MODULATORS
332/117 FREQUENCY MODULATOR
332/123 .Including stabilization or alternatively
distortion, noise or other interference prevention,
reduction, or compensation
332/125 ..Automatic amplitude stabilization or control

2 332/145 (0 OR, 2 XR)
Class 332 : MODULATORS
332/144 PHASE MODULATOR
332/145 .Including amplitude modulator

2 341/118 (1 OR, 1 XR)
Class 341 : CODED DATA GENERATION OR CONVERSION
341/118 CONVERTER COMPENSATION

2 342/128 (1 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/118 DETERMINING DISTANCE
342/128 .With frequency modulation

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2 342/134 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/118 DETERMINING DISTANCE
342/134 .With pulse modulation

2 342/135 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/118 DETERMINING DISTANCE
342/134 .With pulse modulation
342/135 ..Digital (e.g., with counter)

2 342/173 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/165 TESTING OR CALIBRATING OF RADAR SYSTEM
342/173 .By monitoring

2 342/200 (2 OR, 0 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/200 .For frequency modulation

2 342/204 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/202 .For pulse modulation
342/204 ..With pulse shaping

2 342/27 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/27 PRESENCE DETECTION ONLY

2 360/51 (2 OR, 0 XR)
Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
RETRIEVAL
360/39 GENERAL PROCESSING OF A DIGITAL SIGNAL
360/51 .Data clocking

2 360/61 (0 OR, 2 XR)
Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
RETRIEVAL
360/55 GENERAL RECORDING OR REPRODUCING
360/61 .Signal switching

2 370/337 (2 OR, 0 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/310 COMMUNICATION OVER FREE SPACE
370/328 .Having a plurality of contiguous regions
served by respective fixed stations
370/329 ..Channel assignment
370/336 ...Combining or distributing information via
time channels
370/337Multiple access (e.g., TDMA)

2 372/18 (1 OR, 1 XR)
Class 372 : COHERENT LIGHT GENERATORS
372/9 PARTICULAR BEAM CONTROL DEVICE

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372/18 .Mode locking

2 375/130 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/130 SPREAD SPECTRUM

2 375/140 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/130 SPREAD SPECTRUM
375/140 .Direct sequence

2 375/147 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/130 SPREAD SPECTRUM
375/140 .Direct sequence
375/147 ..Receiver

2 375/274 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT
375/271 .Angle modulation
375/272 ..Frequency shift keying
375/274 ...Minimum shift keying

2 375/297 (2 OR, 0 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
375/296 .Antinoise or distortion (includes
predistortion)
375/297 ..Power amplifier

2 375/298 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
375/298 .Quadrature amplitude modulation

2 375/302 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
375/302 .Angle modulation

2 375/305 (1 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
375/302 .Angle modulation
375/303 ..Frequency shift keying
375/305 ...Minimum shift keying

2 375/306 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
375/302 .Angle modulation
375/303 ..Frequency shift keying
375/306 ...One oscillator

2 375/307 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
375/302 .Angle modulation
375/303 ..Frequency shift keying
375/307 ...Two or more oscillators

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2 375/316 (2 OR, 0 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/316 RECEIVERS

2 375/317 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/316 RECEIVERS
375/317 .Automatic baseline or threshold adjustment

2 375/324 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/316 RECEIVERS
375/322 .Angle modulation
375/324 ..Particular demodulator

2 375/346 (1 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/316 RECEIVERS
375/346 .Interference or noise reduction

2 375/350 (2 OR, 0 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/316 RECEIVERS
375/346 .Interference or noise reduction
375/350 ..By filtering (e.g., digital)

2 375/367 (1 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/354 SYNCHRONIZERS
375/362 .Frequency or phase control using synchronizing
signal
375/365 ..Synchronization word
375/367 ...Pseudo noise

2 375/372 (1 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/354 SYNCHRONIZERS
375/371 .Phase displacement, slip or jitter correction
375/372 ..Elastic buffer

2 377/44 (0 OR, 2 XR)
Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR
SHIFT REGISTERS: CIRCUITS AND SYSTEMS
377/27 SYSTEMS
377/44 .Counter controlled counter

2 377/47 (1 OR, 1 XR)
Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR
SHIFT REGISTERS: CIRCUITS AND SYSTEMS
377/27 SYSTEMS
377/47 .Pulse multiplication or division

2 455/126 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/91 TRANSMITTER
455/126 .with feedback of modulated output signal

2 455/164.2 (1 OR, 1 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,

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tuning)

455/161.1 ..Frequency scanning
455/164.1 ...With automatic frequency control
455/164.2Processor controlled (AFC)

2 455/208 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/205 .Frequency or phase modulation
455/208 ..With synchronized or controlled local
oscillator

2 455/226.1 (1 OR, 1 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/226.1 .Measuring or testing of receiver

2 455/265 (1 OR, 1 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/230 .Local control of receiver operation
455/255 ..Local oscillator frequency control
455/257Automatic
455/265With local oscillator synchronization or
locking

2 455/3.02 (1 OR, 1 XR)
Class 455 : TELECOMMUNICATIONS
455/3.01 WIRELESS DISTRIBUTION SYSTEM
455/3.02 .Receiver for satellite broadcast

2 455/304 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/296 .Noise or interference elimination
455/303 ..Using plural separate signal paths
455/304 ...Phase shift in at least one path

2 455/310 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/296 .Noise or interference elimination
455/310 ..Internally generated noise or oscillations

2 455/313 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/313 .Frequency modifying or conversion

2 455/42 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
455/42 .Frequency or phase modulation

2 455/67.13 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS

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455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/67.11 .Having measuring, testing, or monitoring of system or part

455/67.13 ..Noise, distortion, or unwanted signal detection (e.g., quality control, etc.)

2 455/71 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/68 .with control signal

455/70 ..Receiver control signal originates at message transmitter

455/71 ...Frequency control

2 455/75 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G., TRANSCEIVER)

455/75 .with frequency stabilization (e.g., automatic frequency control)

2 455/77 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G., TRANSCEIVER)

455/77 .with tuning

2 455/84 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G., TRANSCEIVER)

455/84 .with a common signal processing stage

2 702/69 (1 OR, 1 XR)

Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING

702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT

702/57 .Electrical signal parameter measurement system

702/66 ..Waveform analysis

702/69 ...Signal quality (e.g., timing jitter, distortion, signal-to-noise ratio)

2 702/75 (1 OR, 1 XR)

Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING

702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT

702/57 .Electrical signal parameter measurement system

702/66 ..Waveform analysis

702/75 ...Frequency

2 708/272 (0 OR, 2 XR)

Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING AND CALCULATING

708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER

708/200 .Particular function performed

708/270 ..Function generation

708/272 ...Memory used to store waveshape

2 725/68 (0 OR, 2 XR)

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Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
725/63 SATELLITE VIDEO DISTRIBUTION SYSTEM
725/68 .Receiver

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ability 1
above 5
abstract 1
accompanying 1
accomplished 1
accordance 2
according 2
achieved 2
acquisition 1
across 1
adaptable 1
added 1
additional 1
adjust 1
adjustable 1
adjusted 1
adjusting 2
advance 1
advantages 2
after 7
against 1
aircraft 1
allows 2
also 8
alternative 1
ambiguity 1
among 2
amplitude 1
an 28
analog 6
and 112
another 6
antenna 2
any 3
aperture 4
apparatus 1
apparent 1
appears 1
appended 1
application 1
applications 2
appreciated 2
approach 5
approaches 2
appropriate 1
arbitrary 1
architecture 1
arcsine 1
are 14
arrangement 3
art 3
artisan 2
as 25
asic 1
assignee 1
associated 7
at 22
attorney 2
auxiliary 1
available 1
averaging 1
azimuth 1
background 2

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band 2
bandwidth 1
base 4
based 4
be 40
because 3
become 1
been 1
before 9
beginning 2
begins 1
being 1
below 2
benefit 2
between 18
block 5
blocks 1
board 1
both 1
break 2
brief 1
brown 1
but 3
by 35
calculate 1
calculated 1
calibrated 2
calibrating 5
calibration 16
calibrator 4
can 1
capable 1
carrier 3
cascaded 2
caused 1
certainly 1
challenge 1
change 2
changing 1
chip 1
chirp 21
chirps 1
choice 1
circuit 1
circuits 3
claims 1
clock 2
coarse 10
coast 1
coasting 11
coherency 1
combination 1
combinations 1
combine 2
combined 2
combines 2
combining 1
come 1
communication 3
compared 1
comparing 2
complete 1
components 6

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compounded 1
comprises 1
comprising 1
concurrently 1
conditions 2
configuration 1
connected 6
connecting 1
consequently 1
constant 1
construed 1
content 1
continues 1
continuity 6
continuous 25
control 5
controllably 2
controlled 4
controller 14
controlling 1
controls 1
convenient 1
conventional 3
converter 13
converters 5
convey 1
copending 1
correlated 1
correlation 3
corresponding 1
could 1
coupled 8
coupling 1
course 1
cover 1
created 8
creates 1
creating 2
cross 4
currently 1
data 2
dds 32
decoded 1
define 1
defined 1
degradation 2
degrees 3
described 9
describing 1
description 3
descriptions 1
desired 2
detail 3
detailed 2
details 2
detector 2
determine 3
determines 1
determining 1
deviation 1
diagram 10
diagrammatically 1
difference 5

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different 16
digital 16
digitally 1
dimension 3
direct 3
directed 2
disclosed 2
disclosure 3
disclosures 1
discontinuities 15
discontinuity 1
discussed 2
distorts 1
disturbance 1
disturbances 2
divider 4
division 1
do 1
docket 2
does 1
downstream 3
drawings 4
drift 1
due 2
duration 1
during 23
each 4
efficient 1
either 2
elements 3
eliminated 1
embodied 1
embodiment 5
embodiments 8
end 1
enlarged 2
entire 2
entirety 1
entitled 1
equal 8
equals 1
equipment 1
error 5
errors 1
established 1
even 1
exact 1
example 9
except 1
exhibit 1
external 1
facilitates 1
factor 1
factors 1
fast 1
features 3
feedback 4
field 2
fig 10
figs 2
figure 1
filed 1
filter 3

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fine 9
finest 2
first 16
fixed 2
fm 1
fo 1
foff 14
following 1
for 18
foregoing 2
forms 1
forth 1
four 1
frequencies 5
frequency 140
from 19
fully 3
function 1
functional 1
fx 6
gain 2
gcsd 17
generate 4
generated 4
generates 2
generating 8
generator 17
generators 1
ghz 1
good 1
granularity 2
greater 1
ground 1
grouping 1
hand 1
hardware 1
has 4
have 3
having 4
here 1
herein 3
hereinafter 1
herewith 1
high 8
higher 3
highest 1
holds 1
however 4
ibrating 1
ideal 2
ieee 1
if 1
ifs 1
illustrate 1
illustrated 4
illustrating 1
illustration 1
image 2
imagery 1
implementation 1
implemented 1
improves 1
in 39

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include 4
included 2
includes 9
including 6
incorporated 1
increase 3
increased 1
indicate 1
induced 1
infinite 1
initial 1
initially 2
input 4
inputs 7
instances 1
instant 3
instantaneous 2
integrated 1
integrators 4
intended 3
interval 6
introduction 1
invention 25
involves 1
is 79
isolation 1
its 6
kand 1
key 1
known 1
kushner 1
large 1
like 3
limit 2
limited 2
limiting 1
linear 1
linearization 1
linearly 2
little 1
lmmary 1
local 1
located 1
locked 6
lookup 1
loop 10
loss 1
low 5
lowest 2
made 4
maintain 1
major 1
make 2
manner 1
many 2
match 1
mathematical 1
maximize 1
may 20
means 1
meant 2
measured 4
measurements 3

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method 5
methods 3
mhz 8
mind 1
minimize 1
mirror 1
mirrored 2
mission 2
mixer 14
mixing 1
modifications 2
modular 2
modulated 2
modulation 2
more 4
motion 1
multiple 1
multiplication 2
multiplications 1
multiplier 1
multiply 1
multiplying 1
narrow 1
near 1
need 1
needed 3
negative 2
new 3
next 3
no 4
noise 2
non 2
normally 3
not 10
notation 1
noted 1
now 3
nphase 1
numbers 1
object 1
objects 2
obscure 1
occur 1
of 133
offer 1
offset 43
on 7
one 4
only 1
open 1
opens 1
operation 4
operations 1
operative 4
optimal 1
or 12
order 3
oscillator 4
oscillators 1
other 6
out 3
output 35
over 5

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overall 1
overview 1
packaged 1
page 17
pages 1
particular 2
particularly 1
pass 3
patent 1
performance 2
pertinent 1
phase 103
platform 2
pll 10
plo 7
plurality 7
plus 1
point 3
pointed 1
points 1
porcello 1
portion 2
possible 1
post 3
power 5
practical 1
pre 6
precise 1
preferably 4
preferred 2
prescribed 1
present 19
presented 1
pretune 1
previous 3
primarily 2
prime 1
principles 1
problem 1
proceeds 1
processing 3
processor 1
produce 12
produced 10
produces 2
product 1
provide 5
provided 9
provides 5
providing 3
pulse 2
pure 1
purity 1
purpose 1
purposes 1
put 1
quadratic 1
radar 5
radiation 2
radio 1
ralibrating 1
ramp 8
ramps 1

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range 22
rat 1
rates 1
rather 2
reaching 2
readily 4
realize 1
receive 2
receiver 1
receiving 9
reduce 11
reduced 2
refer 1
reference 17
referenced 1
referring 5
refernce 1
reflected 1
reflection 1
region 1
relates 1
relative 1
relatively 18
removed 1
require 1
required 2
requiremens 1
reset 1
resides 1
resolution 4
resolve 1
resolves 1
respective 4
respectively 1
response 1
restarted 1
result 1
return 3
returned 1
returns 1
rf 3
rmhodiments 1
rrrquency 1
same 2
sar 8
satellite 1
schematic 3
schematically 1
scope 2
second 18
selects 1
self 7
september 1
sequentially 1
serrodyne 1
set 6
sets 2
settings 1
settling 1
short 1
should 4
show 1
shown 2

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shows 1
side 1
signal 66
signals 16
similar 1
simplified 1
since 2
skilled 5
smoothed 1
so 9
source 1
specific 3
spectral 2
spectrum 1
speed 2
spurious 1
sqrt 1
stairstep 1
standard 1
static 1
step 1
stepped 1
steps 1
successive 1
successively 17
such 8
suffer 1
sum 5
supplied 4
sweep 9
sweeping 1
swept 29
switch 24
switched 13
switches 7
switching 47
synchronize 1
synthesis 1
synthesizer 40
synthesizing 1
synthetic 3
system 3
systems 4
table 1
taken 1
teachings 1
technique 1
techniques 1
technologies 1
temperature 1
term 1
than 3
that 19
the 363
their 4
then 2
there 1
therefor 1
therefore 3
thereupon 1
these 2
they 1
third 2

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this 9
thorough 1
those 5
through 3
throughout 1
thus 3
time 11
timing 4
tl 2
to 123
tolerant 1
track 1
transient 3
transients 4
transition 2
transitions 1
translation 3
transmit 2
transmitter 1
tune 8
tuned 1
tuning 5
typical 1
typically 5
under 5
understandable 1
understood 3
undesired 14
unfortunately 1
unit 6
up 3
uphase 1
upon 5
upper 1
use 2
used 7
using 2
utilized 1
value 1
various 3
varying 1
vco 1
via 2
view 1
views 1
voltage 2
waveform 1
waveforms 2
well 2
were 1
when 2
whenever 1
where 1
which 19
while 4
wide 1
wideband 15
widen 1
widerahd 2
width 1
wifh 1
will 13
with 22

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within 4
without 2
words 2
would 8
yet 1
zero 5